

Title (en)  
IMMUNO INHIBITORY HETEROCYCLIC COMPOUNDS

Title (de)  
IMMUNOINHIBITORISCHE HETEROCYCLISCHE VERBINDUNGEN

Title (fr)  
COMPOSES HETEROCYCLIQUES IMMUNO-INHIBITEURS

Publication  
**EP 1753765 A1 20070221 (EN)**

Application  
**EP 05738153 A 20050426**

Priority  
• GB 2005001583 W 20050426  
• GB 0411770 A 20040526

Abstract (en)  
[origin: WO2005116033A1] Compounds of formula (I) are CD80 inhibitors, and of value for immunomodulation, e.g. in rheumatoid arthritis, multiple sclerosis, diabetes, asthma, transplantation, systemic lupus erythematosus and psoriasis: wherein Y is-CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-, or CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-; R<sub>1</sub> represents H; F; methyl, trifluoromethyl, methoxy or trifluoromethoxy; R<sub>3</sub> represents H; F; Cl; Br; NO<sub>2</sub>; CN; C<sub>1</sub>C<sub>6</sub> alkyl optionally substituted by F or Cl; or C<sub>1</sub>-C<sub>6</sub> alkoxy optionally substituted by F; R<sub>4</sub> represents a carboxylic acid group (-COOH) or an ester thereof, or-C(=O)NR<sub>6</sub>R<sub>7</sub>-NR<sub>7</sub>C(=O)R<sub>6</sub>, NR<sub>7</sub>C(=O)OR<sub>6</sub>, NHC(=O) or NHC(=S)NR<sub>7</sub>R<sub>6</sub> wherein R<sub>6</sub> and R<sub>7</sub> are as defined in the specification and X represents a bond or a divalent radical as defined in the specification.

IPC 8 full level  
**C07D 487/04** (2006.01); **A61K 31/5025** (2006.01); **A61P 37/02** (2006.01)

CPC (source: EP US)  
**A61P 7/12** (2017.12 - EP); **A61P 37/02** (2017.12 - EP); **C07D 487/04** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005116033A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005116033 A1 20051208**; AT E501146 T1 20110315; DE 602005026805 D1 20110421; EP 1753765 A1 20070221;  
EP 1753765 B1 20110309; GB 0411770 D0 20040630; JP 2008500314 A 20080110; JP 4852537 B2 20120111; US 2008021033 A1 20080124;  
US 7566713 B2 20090728

DOCDB simple family (application)  
**GB 2005001583 W 20050426**; AT 05738153 T 20050426; DE 602005026805 T 20050426; EP 05738153 A 20050426; GB 0411770 A 20040526;  
JP 2007514067 A 20050426; US 59731905 A 20050426